| Work Orde | er ID 10 | | | *108 | 3168* | | | | | | | Page 1 |
|--------------------------------|-------------|---------------------------------|-------------------------------------|------------------------|------------------------|-------|--------------|---------------|-------------|-------|-------|----------------|
| Item ID: Revision ID: | D4092-041 | | | Accept | *N900 |)040 | 100 |)* | Setup | Start | 1/1/2 | \$1 * |
| | 10/8/2013 | Start Qty: 3.00 Req'd Qty: 3.00 | *3* *3* | | Cust Item Customer: | | | | | Stop | *N.S | S 2* |
| Approvals: | Process Pla | in: MF | Date: 13-10-08 | Tooling: | D | ate: | - | I | Run | Start | *NF | ?1 * |
| | QC: | | Date: | SPC (Y/N): | D | ate: | | | | Stop | *NF | ? 2* |
| Sequence ID/ Work Center II | D | Operation Description | | Set Up/ Run Hours | Tool ID | Tool# | Plan Code | Accept Qty | Rejo Qty | | | Insp. Stamp |
| Draw Nbr | Rev | ision Nbr | | | A | | | | | | | |
| D4092 | В | | | | | | | | | | | |
| *100 *100* Packaging Packaging | | Pick Kit Memo | | 0.00 | | | | 3x | | | | £3/10 |
| 110 | | | | | | | | | | | | , |
| *110* Small Fab | | Мето | | 0.00 | | | | 3× | | | | 13/10 |
| Small Fab | | Assemble as Torque scre | s per Dwg ws up to 15-25 in- lbs | | | | | | | | | , , |
| *120 | | QC5- Inspect part compl | leteness to step on W/O | 0.00 DAS 27 9-89 | | | | ર | | | | |
| QC Quality Control | | Memo | | 0/8 m | 9 | | - | <u></u> | | | | |

| | | | | | | | | | | DQA: | Date: | <u> </u> | |
|---------------|--|---------------------|-----|--------|----------------------------|--------|----------------------------|-------------------|------------|---------------|------------------|--------------------|--|
| NCR: Y | 'es / N | o | | | WORK ORDER NON- | COI | NFORM | MANCE / UPI | DATE | QA Closed: | Date: | | |
| | - | , | | ***** | 1 | į | <u> </u> | | | QA Closed. | Date. | | |
| Work Orde | sř• | | | | DISPOSITION | | AGAINST DEPARTMENT/PROCESS | | | | | | |
| Work Orde | | | | | Rework | 7 | | Skid-tube | Crosstube |] | Water Jet | Engineering | |
| Part N | lo. | | | | Scrap | 1 | | Machining | Small Fab | Pro | d. Eng. Coor. | Quality | |
| | | | | | Use-as-is | 1 | | noforming | | | | | |
| NCR N | lo. | | | | Work Order Update | 1 | Large Fab Composite | | | 1 | Supplier | | |
| | | | | | | - | | | | - | | | |
| Root | | | | Descri | ption of work order update | | Initial | Act | tion | Sign & | | | |
| Cause | Da | e Step | Qty | | or Non-conformance | Ct | nief Eng | Desci | ription | Date | Verification | QC Inspector | |
| Doc/Data | | | | [] | | | | | | | | | |
| Equip/Tooling | _ | | | | | | | | | | | | |
| Operator | | | | | | | | | | | • | | |
| Material | | 1 | | | | | | | | | | | |
| Setup | | | | | | | | | | | | | |
| Other | | | İ | 1 | | 1 | | | | | | | |
| Process | | | 1 . | : | | | | | | | | | |
| Supplier | | | | | | | | | | | | | |
| Training | | | | | | | | | | | | | |
| Unapproved | | | | | | | | | | | | | |
| | | | | | | AUI | T CATE | GORY | | | | | |
| Landi | ng Gear | | | _ | General | _ | 7 | | | 7 | r | 1 . | |
| | | Bending Bend | | | | | Grain | | | Ovalized | | Pressure/Forced | |
| | Centre Not Concentric to O/S BOM/Route | | | | <u> </u> | Hardwa | | <u> </u> | Over/Under | | Temperature/Cure | | |
| | Crack | | | | Broken/Damaged | | 4 · | ion Incomplete | | Part Incorred | | Weld | |
| | | ed/Crimped | l | _ | Burrs | | 1 | ions Incomplete/U | Jnclear | Part Lost/Mi | ssing | Wrong Stock Pulled | |
| | Cuffs | Cuffs Contamination | | | | | Mainte | enance | | Part Moved | | | |

Mislabeled

Out of Calibration
Out of Sequence

Outside Dimensions

Misread

Offset

Positioned Wrong

Power Loss/Surge

Other

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

Countersink

Cut Too Short Drill Holes

Drawing

Finish Folio

| - | | | | | | | | | | | | |
|---|-------------|------------------------------------|------------|----------------------|------------------------|--------|--------------|---------------|-------------------|-------|------------------|----------------|
| Work Ord Tuesday, Octob | | | | *108 | 3168* | | | | | | | Page |
| Item ID: Revision ID: | D4092-041 | | | Accept | *N900 | 040 | 100 |)* | Setup | | I M | S1* |
| Item Name: | Maintenance | Step Assembly | | | | | | | | Stop | *N | S2* |
| Start Date: Required Date: Reference: | 10/8/2013 | Start Qty: 3.00 Req'd Qty: 3.00 | *3* *3* | | Cust Item Customer: | | | | | | | |
| Approvals: | Process Pla | an: | Date: | Tooling: | D | ate: | | | Run | Start | *N | R1* |
| | QC: | | Date: | SPC (Y/N): | D | ate: | | | | Stop | *N | R2* |
| Sequence ID/ Work Center II | D | Operation Description | | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reje Qty | | Reject Number | Insp. Stamp |
| 130 | | Identify as per dwg & St | | 0.00 | | | | | | | | • |
| *130* Packaging Packaging | | Мето | PPP10620 | 0.00 | | | | 3x | DAS 28 9-89 | ;/; | 3-10 | -9_ |

140

QC21- Final Inspection - Work Order Release

0.00

*14**0***

Quality Control

Memo

0.00

At/ 18/3-10-10 MF 13-10-09

Page 2

| | | | | | | | | | | | DQA: | Date: | <u></u> |
|---------------|---------|----------|----------|----------|----------|--|-----|----------|-------------------------|--|------------------|---|---------------------------|
| NCR: Y | es / | No | | | | WORK ORDER NON-C | :01 | NFORM | MANCE / UPDATE | | QA Closed: | Date: | |
| | | | | | | | — | | | | QA Closed: | Date. | |
| Work Orde | er: | | | | | DISPOSITION | | | AGA | AINST DE | PARTMENT | /PROCESS | |
| Part N | lo | | | | | Rework Skid-tube Machining Work Order Update Large Fab | | | Machining Sma | stube Fab ishing oosite | - | Water Jet d. Eng. Coor. re/Packaging Supplier | Engineering Quality Other |
| Root | | | | | Descr | iption of work order update | | Initial | Action | | Sign & | | |
| Cause | Di | ete : | Step | Qty | | or Non-conformance | Ch | nief Eng | Description | | Date | Verification | QC Inspector |
| Doc/Data | | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | · | · |
| Operator | | | | | | | | | | | | | |
| Material | | | | | | | | | | | | | |
| Setup | | | | | | | ļ | | | | | | |
| Other | | | | • | | | | | | | | | • |
| Process | | | | ` | , | | | | | | | | |
| Supplier | | | | | | * * | ł | | ٠ | | <u> </u> | | |
| Training | | | | . : | | | | | | | | 1 | |
| Unapproved | | | | | | | | | | | | | |
| | | | | | | F | AUI | T CATE | GORY | | | - | |
| Landi | ng Gear | | | | _ | General | _ | - | | | - | | _ |
| | Ben | ding | | | <i>(</i> | Bend | L | Grain | , · | | Ovalized | | Pressure/Forced |
| | Cen | tre Not | Concen | ntric to | o/s | BOM/Route | L | Hardwa | re . | | Over/Under | tolerance | Temperature/Cure |
| | Crac | kś | | | | Broken/Damaged | | Inspecti | on Incomplete | | Part Incorre | ct | Weld |
| | Crus | hed/Cri | H | | | | | Instruct | ions Incomplete/Unclear | | Part Lost/M | issing | Wrong Stock Pulled |
| | Cuff | s | | | | Contamination | |] Mainte | nance | | Part Moved | | |
| | Hea | t Treat | | | | Countersink | | Mislabe | led | | Positioned Wrong | | _ |
| | Insp | ection S | Strip in | Tube | | Cut Too Short | | Misread | | | Power Loss/ | Other | |

Offset

Out of Calibration

Out of Sequence

Oùtside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Page 1

Work Order ID:

108168

Parent Item:

D4092-041

Parent Item Name:

Maintenance Step Assembly

Start Date: 10/8/2013

Required Date: 10/18/2013

Start Qty: 3.00

Required Qty: 3.00

Comments:

IPP REV:A NEW ISSUE 10-06-01 JLM VERIFIED BY:DD 639 JLM VERIFIED BY:DD

IPP REV:B AS PER ECN 11-

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|--------------------------|------------------|-----------------|--------------------|----------------|-------------|-----------------|---------------|----------------|--------|
| D4092-1 Maintenance Step | | Manufactured | No | • | | 100 | Each | 15.0000 | 2 | 6/ | D 3 | /10 | 09 |
| | | | | <u>Location</u> GA | | Loc Oty | <u>L</u> . | oc Code | | | | / / | |
| | | | | 77852 | 2 | 1 | | | | | | | |
| | | | | ST241A 74303 | 3 | 1 | | | | <u> </u> | | | , |
| · | | | | ST270A 10236 10496 | | 13 | | | | | | • | |
| D4093-1 Bracket | | Manufactured | No | 10490 | | 100 | Each | 2.0000 | 1 | | J13/ | /0/ | 0 2 |
| | | | | Location ST270 | | Loc Oty 2 | <u>Lo</u> | oc Code | | | B10 | 424 | 15-(|
| D4093-3 Bracket | | Manufactured | No | 99653 | 3 | 100 | Each | 8.0000 | 1 | 3 | 1 | /10 | 65 |
| ` ∞ ⊊., | | | | Location ST270 | | Loc Oty 8 | <u>Lo</u> | c Code | | | | , e-say | |
| D4093-5 Bracket | | Manufactured | No | 10288 | 30 | 100 | Each | 12.0000 | 2 | <u>}_</u> 6_ | 8/3 | /10/ | 08 |
| | | | | Location ST093 | | Loc Oty | <u>Lo</u> | c Code | | | | | |
| | | | | 10278 10601 | | 4 | | | 4 | 2 | 1 | | |

| | | | DQA: | Date: _ | acti de j | |
|------|-------|----|-------------------------------------|---------|-----------|--|
| NCR: | Yes / | No | WORK ORDER NON-CONFORMANCE / UPDATE | | | |
| | | | QA Closed: | Date: | | |

| <u> </u> | | | | | | | | | | | | QA Closed: | Dat | e: | |
|-----------------------------------|-----------------------|-----------|---------------|-------------|-----------------|----------------------------|----------|---------------------|---------------------|------------------------|-----------------------|---------------|----------------------------|--------|---------------------|
| Work Orde | er: | | | | | DISPOSITION | | | | AGAINST | DEF | PARTMENT | /PROCESS | | |
| Part N | - lo. | | | | | Rework Scrap | | | Skid-tube Machining | Crosstube Small Fab | - | Pro | Water Jet d. Eng. Coor. | - | Engineering Quality |
| , 2, 1 | - | | | | | Use-as-is | 1] | | noforming | Finishing | - | | re/Packaging | \neg | Other |
| NCR N | No. | | | | | Work Order Update | 1 | Large Fab Composite | | | _ | Supplier | | | |
| | - | | | | | | ' | | | • | | | | | |
| Root | | | | | Descri | ption of work order update | ln | itial | Ac | ction | | Sign & | | | |
| Cause | | Date | Step | Qty | (| or Non-conformance | Chie | ef Eng | Desc | ription | | Date | Verification | ı | QC Inspector |
| Doc/Data | | | | | | | | | | | | | | | |
| Equip/Tooling | | | į | | | | | | | | | | | 1 | |
| Operator | | | 1 | | | | | | | | | | | | |
| Material | | | | | | | | | | | | | | | |
| Setup | Ш | | } | | | | | | | | | | | | ٠. |
| Other | Ш | | Ì | | | | | | | | - 1 | | | | |
| Process | | • | | | | • | | | | - | | | France . | - - | |
| Supplier | | | i | | | | | | | | | | | | . * |
| Training | | | | | | | 1 | | | | • | | | | |
| Unapproved | | | <u> </u> | | | · | | | | | | | | | |
| | | | | | | | AULT | CATE | GORY | | | | | | |
| Landi | | | | | · | General | | | | | | | | _ | |
| ' | $\boldsymbol{\vdash}$ | Bending | | | <u> </u> | Bend | - | Grain | | | \boldsymbol{dash} | Ovalized | | — | ressure/Forced |
| | - | Centre No | ot Concei | ntric to | o/s | BOM/Route | \vdash | Hardwa | | | - | Over/Under | - | _ | emperature/Cure |
| | Н | Cracks | | | | Broken/Damaged | - | • | ion Incomplete | | ш | Part Incorred | | | Veld . |
| | - | Crushed/ | Crimped | | | Burrs | _ | | ions Incomplete/ | /Unclear | - | Part Lost/Mi | ssing [| \ | Vrong Stock Pulled |
| | Н | Cuffs | | | <u> </u> | Contamination | \vdash | | enance | • | | Part Moved | • | | |
| | \vdash | Heat Trea | | | ļ | Countersink | - | Mislabe | | | $\boldsymbol{\vdash}$ | Positioned V | | | , |
| 1 1 | | | Cut Too Short | - | Misread | d | | Ш | Power Loss/ | Surge | IC | Other | | | |
| | | | | Drill Holes | ļI | Offset | | | | | | | | | |
| Torque Waves in Extrusion Drawing | | | | | 4 ~ | - | | Calibration | | | | | | · | |
| | | | | Finish | Out of Sequence | | | | | | | | | | |
| Wave/Twist in Tube | | | | Folio | 1 (| Outside Dimensions | | | | | | | | | |

Tuesday, October 08, 2013 10:31:22 AM

| Work Order ID: | 108168 | | | | | | | · · · · · · · · · · · · · · · · · · · | |
|-----------------------------|------------------|-----------|-----|-----------------|---------|------|-------------|---------------------------------------|---------------------------|
| Parent Item: | D4092-041 | | | | | | Start I | Date: 10/8/2013 | Required Date: 10/18/2013 |
| Parent Item Name: | Maintenance Step | Assembly | | | | | | Qty: 3.00 | Required Qty: 3.00 |
| MS24694-S54 SCREW | ÷ | Purchased | No | | 100 | Each | 504.0000 | 2 | 6/3/10/09 |
| | | | | Location | Loc Oty | | Loc Code | | |
| | | | | ST303 | 504 | | | | |
| • | | | | 125535 | 504 | | | - | |
| MS24694-S55 Screw | | Purchased | No | | 100 | Each | 113.0000 | 8 2 | 4 / 1/2/25 |
| | | | | T 41 | | | | (<u> </u> | 70/0/0/ |
| | | | | Location | Loc Qty | | Loc Code | | |
| | | | | ST303 | 113 | • | | - | |
| | | | | 124296 | . 61 | | | - 3/ | |
| MS24694-S56 | | | | 125535 | 52 | | | 24 | 011 |
| SCREW | | Purchased | No | | 100 | Each | 161.0000 | 2 | 5/3/10/09 |
| | | | | Location | Loc Oty | | Loc Code | | |
| | | | | ST303 | 161 | | | | |
| • | | | | 121340 | 10 | | | | |
| • | | | | 125535 | 51 | | | | |
| | | | | m126400 | 100 | | | | |
| NAS1149D0332J Washer | | Purchased | 'No | | 100 | Each | 1,403.0000 | 12 3 | 6/3/10/09 |
| | | | | Location | Loc Qty | | Loc Code | | |
| | | | | ST293 | 37 | · | | | |
| | | | | 125268 | .37 | | | | |
| | | | | ST294 | 1366 | | | | |
| | | | | 122973 | 75 | | | | |
| | | | | 125044 | 99 | | | | |
| | | | | m125807 | 1192 | | | 25 31 | |
| | | | | | | | | - | |

| NCR: | Yes | 1 | No |
|------|-----|---|----|

DQA: _____ Date: _____ _ _ _ ___

| NCR: Y | es/ | / No | | | | WORK ORDER NON-O | CONFC |)RN | MANCE / UP | DATE | | | | |
|-----------------|----------|------------|-----------|------------|--------|--------------------------------|----------|---|------------------|-----------|---------------|----------------------------|---------------------|--|
| | | | | | | | | | | | QA Closed: | Dat | e: | |
| Nork Orde | er: | | | | | DISPOSITION | | AGAINST DEPARTMENT/PROCESS | | | | | | |
| Part N | | | | | | Rework Scrap | | Skid-tube Crosstube Machining Small Fab Thermoforming Finishing | | | -1 | Water Jet d. Eng. Coor. | Engineering Quality | |
| NCR No Work Ord | | | | | | Use-as-is Work Order Update |] '' | | Large Fab | Composite | Rec/Stol | re/Packaging Supplier | Other | |
| Root | | | | | Descri | ption of work order update | Initia | al | Act | tion | Sign & | | | |
| Cause | | Date | Step | Qty | | or Non-conformance | Chief E | Eng | Desci | ription | Date | Verification | QC Inspector | |
| oc/Data | | | | | | • | | | | | | , | | |
| quip/Tooling | | | | | | | | 1 | | | | | : | |
| perator | | | | | | | | | | | | | | |
| laterial | | | | | | | | - | | | | | | |
| etup | | | | | | • | | | | | | | | |
| ther | | | | | | | | | | | | | | |
| rocess | | | | | | | | | | | | | | |
| upplier | | | | | | | | | | | | | | |
| raining | | | | | | | | | | | | | | |
| napproved | | | | | | | | | | | | | | |
| | | **** | | | | F. | AULT CA | ATE | GORY | | | | | |
| Landi | ng (| Gear | | | | General | | | | | | | | |
| | | Bending | | | | Bend | Gra | ain | | | Ovalized | Γ | Pressure/Forced | |
| | | Centre No | ot Concer | ntric to (| o/s | BOM/Route | Har | rdwa | re | | Over/Under | tolerance | Temperature/Cure | |
| | | Cracks | | | | Broken/Damaged | Insp | pecti | on Incomplete | | Part Incorred | ct | Weld | |
| | | Crushed/0 | Crimped | | | Burrs | Inst | truct | ions Incomplete/ | Unclear | Part Lost/Mi | ssing | Wrong Stock Pulled | |
| | | Cuffs | • | | | Contamination | Ма | inte | enance | | Part Moved | _ | | |
| | | Heat Trea | it | | | Countersink | Mis | slabe | eled | | Positioned V | Vrong | | |
| | | Inspection | | Tube | | Cut Too Short | ⊢ | sread | | <u> </u> | Power Loss/ | | Other | |
| | | Ripples in | | | | Drill Holes | Offs | | | ٠ - | - | - L | | |
| | \vdash | Torque W | | xtrusion | , F | Drawing | 1 | | Calibration | | | | | |
| | Т | Turning S | | | | Finish | _ | | Sequence | | | · | | |
| | _ | Wave/Tw | | e | - | Folio | — | | Dimensions | | | | | |
| | | | | | | • | | | | | | | | |

Tuesday, October 08, 2013 10:31:22 AM

Work Order ID:

108168

Parent Item:

D4092-041

Parent Item Name:

Maintenance Step Assembly

MS21042L3

Nut

Purchased

No

Start Date: 10/8/2013

Start Qty: 3.00

Required Date: 10/18/2013

Required Qty: 3.00

5,446.0000 12

Location Loc Qty Loc Code FP001 3 122141 3 GA 18 122452 18 ST314 304 111668 117885 32 119017 55 119075 138 123265 43 M126036 35 ST506 1161 123900 849 124291 312 ST510a 3960 M126275 21 M126333 3939

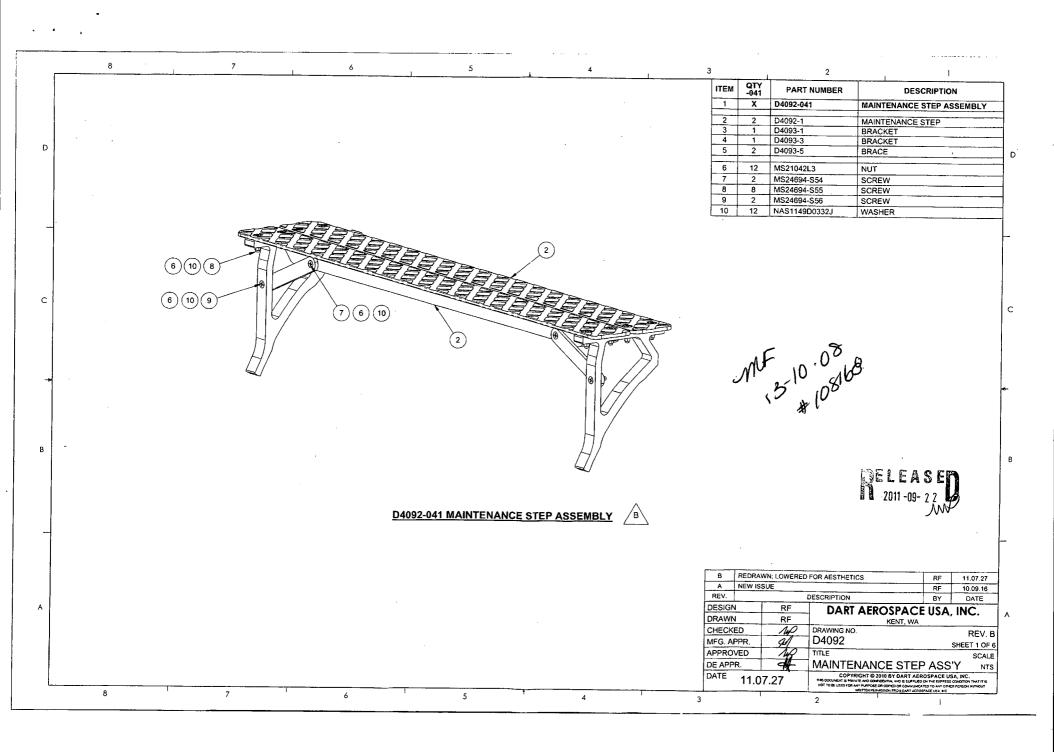
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| NCR. | Yes / | No | WORK ORDER NON-CONFORMA |
|------|-------|----|--------------------------|
| NCK: | res / | NO | WORK ORDER NON-CONFORING |

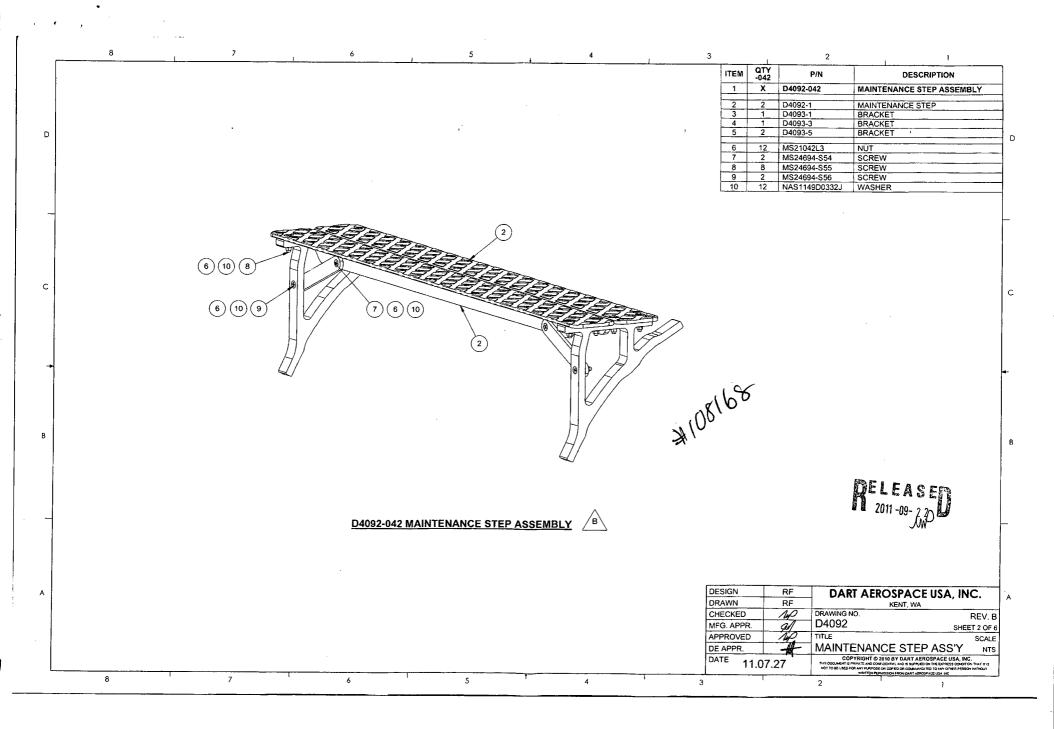
| DQA: | Date: | ٠. | |
|------|-------|--------|---|
| • | | | _ |

| NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE | | | | | | | | | | | | |
|--|-------------|---------|--|--|--|---|---------|--|----------------|--|---|---------------------------|
| | | | | | | | | | | QA Closed: | Date: | · |
| Work Orde | rr: | | | | DISPOSITION | | | _ | AGAINST DE | PARTMENT, | PROCES\$ | |
| Part No | | | | | Rework Scrap Use-as-is Work Order Update | Scrap Machining Small Fab -as-is Thermoforming Finishing | | | | ┥ | Water Jet d. Eng. Coor. re/Packaging Supplier | Engineering Quality Other |
| Root | Root Descri | | | | ption of work order update | 1 | nitial | Act | tion | Sign & | | |
| Cause | D | ate Ste | p Qty | | or Non-conformance | Ch | ief Eng | Desci | ription | Date | Verification | QC Inspector |
| Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved | | | | | | | | | | | | |
| Landin | | · | | | F. General | AUL | T CATE | GORY | | | | <u>-</u> . |
| Landing Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence | | | Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish | | Instruct Mainte Mislabe Misread Offset Out of 0 | ion Incomplete cions Incomplete/U enance eled | Jnclear | Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/ | st ssing /rong | Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other | | |
| Wave/Twist in Tube | | | Folio | | Outside | Dimensions | | | | | | |



| | | DQA: | Date: | |
|---------------|-------------------------------------|------------|-------|--|
| NCR: Yes / No | WORK ORDER NON-CONFORMANCE / UPDATE | | | |
| • | | OA Clasadi | Date | |

| | | | | | | | | | | QA Closed: | Dat | te: | | |
|---------------|--------------------|-------------|----------|----------|--|--|----------------|-----------|---|--------------------|---|--------------------|--|--|
| Work Orde | er: | | | | DISPOSITION | | | | | DEPARTMENT/PROCESS | | | | |
| Part N | | | | | Rework Scrap Use-as-is Work Order Update | Scrap Machining Small F e-as-is Thermoforming Finishi | | | Crosstube Small Fab Finishing Composite | _ | Water Jet Engineering Prod. Eng. Coor. Quality Rec/Store/Packaging Other Supplier | | | |
| Root | | | | Descr | I iption of work order update | Initia | Initial Action | | | Sign & | | | | |
| Cause | Date | Step | Qty | | or Non-conformance | Chief E | ing | Des | cription | Date | Verification | n QC Inspector | | |
| Doc/Data | | | | | | | | | | | | | | |
| Equip/Tooling | | i | | | | | | | | | | | | |
| Operator | | ŀ | | | | | | | | | | | | |
| Material | | | , | | | 1 | | | | | | | | |
| Setup | | İ | | | | | | | | 1 | | | | |
| Other | | | | | | | | | | | | | | |
| Process | | | | | | | | | | | | | | |
| Supplier | | | İ | ļ | | | | | | | | | | |
| Training | | 1 | 1 | | | | | | • | | ļ | | | |
| Unapproved | | | | | | | | | | | <u> </u> | | | |
| | | | | | F | AULT CA | TEGORY | | | | | | | |
| Landi | ng Gear | | | _ | General | _ | | | _ | _ | , | - | | |
| | Bending | | | | Bend | Gra | in | | _ | Ovalized | ļ | Pressure/Forced | | |
| | Centre I | Not Conce | ntric to | o/s | BOM/Route | | dware | | <u> </u> | Over/Under | | Temperature/Cure | | |
| | Cracks | | | | Broken/Damaged | _ | ection Inc | | | Part Incorre |) | Weld | | |
| | | I/Crimped | | _ | Burrs | \vdash | | ncomplete | /Unclear | Part Lost/M | - 1 | Wrong Stock Pulled | | |
| | Cuffs | | | | Contamination | \vdash | intenance | e . | _ | Part Moved | | | | |
| | Heat Tr | eat | | L | Countersink | — | labeled | | | Positioned \ | - | _ | | |
| | | on Strip ir | Tube | L | Cut Too Short | \vdash | read | | L | Power Loss, | 'Surge | Other | | |
| | Ripples | in Bend | | <u>_</u> | Drill Holes | Offs | | | | | <u> </u> | | | |
| | Torque | Waves in | Extrusio | n L | Drawing | _ | of Calibra | | | | | | | |
| | Turning Sequence | | | Finish | Out | of Seque | ıce | | | | , | | | |
| | Wave/Twist in Tube | | | 1 | Folio | I lout | side Dime | nsions | | | | | | |



| | | | | | | | | | | | | DQA: | D | ite: | |
|---------------|--------------------------|-----------|-----------|---------------|------------------|---|----------|--------------|-------------------|-------------|-------|------------------|--------------|------|--------------------|
| NCR: | ⁄es | / No | | | | WORK ORDER NON-C | COI | NFORM | MANCE / UPI | DATE | _ | QA Closed: | D- | ate: | 1 |
| | | | | | | | | I | | | _ | ZA Ciosea. | De | ate. | |
| Work Orde | er: | | | | | DISPOSITION | | | | AGAINST DI | EΡ | ARTMENT | PROCESS | | |
| *********** | • | | | | | Rework |] | | Skid-tube | Crosstube | 7 | Water Jet Eng | | | Engineering |
| Part N | No. | | | | | Scrap | | | Machining | Small Fab | 1 | Prod. Eng. Coor. | | | Quality |
| | • | | | | | | | | noforming | Finishing | 1 | Rec/Stor | e/Packaging | , | Other |
| NCR No. | | | | | | Work Order Update |] | | Large Fab | Composite | | | Supplie | | |
| Root | - | | | | Descri | tion of work order update | | Initial | Act | tion | Τ | Sign & | | | <u> </u> |
| Cause | | Date | Step | Qty | | or Non-conformance | | | Descr | ription | 1 | Date | Verification | on | QC Inspector |
| Doc/Data | | | | | | | | | | | T | | | | |
| Equip/Tooling | | | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | | | ٠ |
| Material | | | | | | | | | | | ı | | | | |
| Setup | | | | | | | | | | | | | | | |
| Other | | |] | | | | | | | | | | | | |
| Process | Ш | | | | Ì | | | | | | | | | | |
| Supplier | | | | | | | | | | | | | | | |
| Training | | | | | | | | | | | | | | | |
| Unapproved | | | <u> </u> | <u> </u> | <u> </u> | | <u> </u> | 7.0475 | 0004 | | 1 | | | | |
| Landi | | | | | | General | AUI | LT CATE | JUKY | | | | | | |
| Landi | _ | Bending | | | | Bend | Г | Grain | | <u></u> | ٦ | Ovalized | | | Pressure/Forced |
| | H | Centre No | nt Conce | ntric to | o/s | BOM/Route | - | Hardwa | re. | | - | Over/Under | tolerance | | Temperature/Cure |
| | | Cracks | or concer | inche to | ^{0,3} ⊢ | Broken/Damaged | \vdash | ┥ | on Incomplete | | - | art Incorrec | | | Weld |
| | \vdash | Crushed/ | Crimped | | | Burrs | | - 1 ' | ions Incomplete/l | Jnclear | - | art Lost/Mi | | | Wrong Stock Pulled |
| - | \vdash | Cuffs | o. mpcu | | | Contamination | | Mainte | • | | | art Moved | | L |] |
| | Heat Treat | | | Countersink | | Mislabe | | | ┥. | ositioned W | /rong | | | | |
| | Inspection Strip in Tube | | | Cut Too Short | | —-I ——————————————————————————————————— | | | ∸1 | ower Loss/S | _ | | Other | | |

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

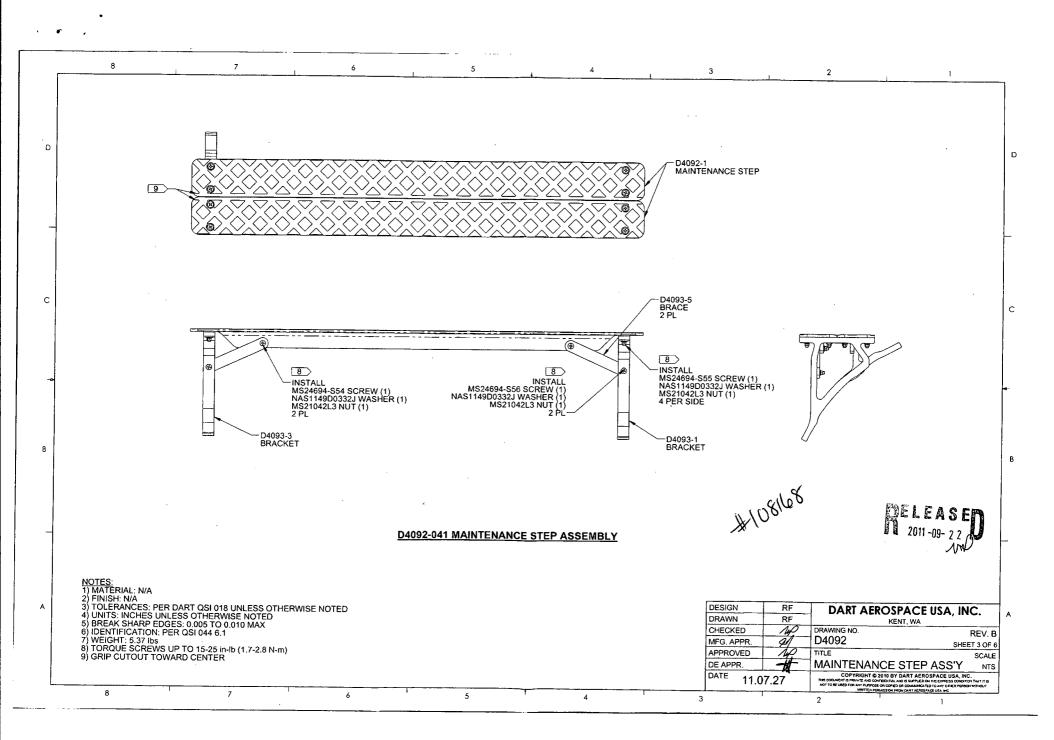
Drill Holes

Drawing

Finish

Folio

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| NCR: | Yes | 1 | No |
|------|-----|---|----|

| NCR: | 'es | / No | | | | WORK ORDER NON- | CON | FORN | /ANCE / UPDATE | | | | | | |
|--|---|------|--------------|---|------|---|-----------------------|--|--|-------------|--|--|---------------------------|--|--|
| | | | | | | | | | | | QA Closed: | Dat | e: | | |
| Vork Orde | er: | | | | | DISPOSITION | OSITION AGAINST DE | | | | | EPARTMENT/PROCESS | | | |
| Part N | - | | | | | Rework Scrap Use-as-is Work Order Update | | Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite | | | 4 | Water Jet d. Eng. Coor. re/Packaging Supplier | Engineering Quality Other | | |
| Root Descr | | | | | Desc | cription of work order update | Ir | nitial | Action | | Sign & | | | | |
| Cause | Ì | Date | Step | Qty | | or Non-conformance | Chief Eng Description | | | Date | Verification | QC Inspector | | | |
| oc/Data quip/Tooling perator laterial etup ther rocess upplier raining | | | | | | | | | | | | | | | |
| | | | | | | | AULI | CATE | 3ORY | | | | | | |
| Landi | Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion | | | General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing | | Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread Offset Out of Calibration | | | Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/ | ct ssing | Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other | | | | |
| | Turning Sequence | | | Finish | - | | Sequence | | | | | | | | |

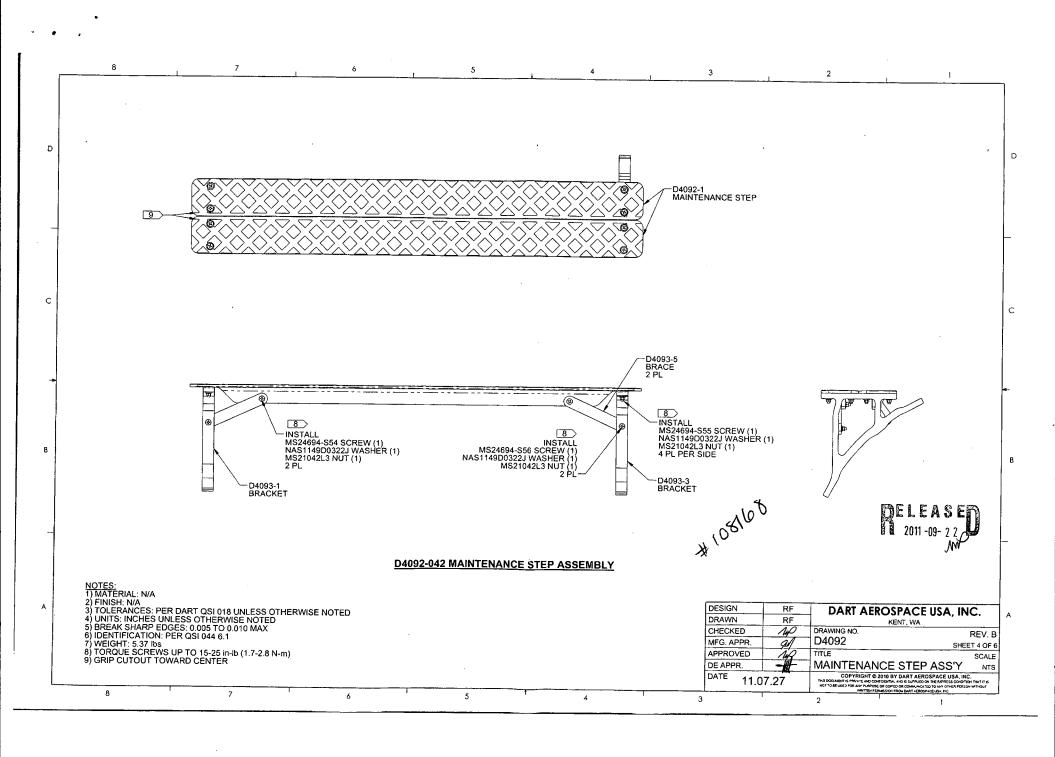
Outside Dimensions

DQA:

Date:

Wave/Twist in Tube

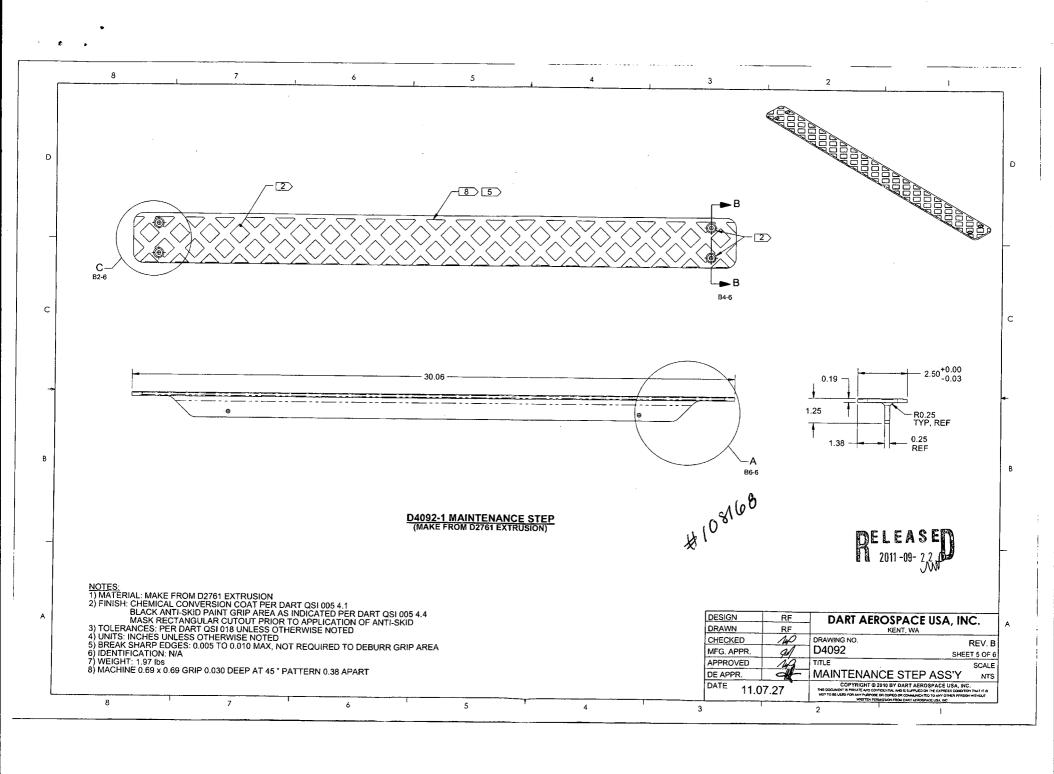
Folio



| NCR: | Yes | 1 | No |
|-------|-----|---|-----|
| INCN. | 162 | 1 | 110 |

| | | | | | | | WORK ORDER NON (| | UE O DA | AANCE / UD | DATE | DQA: | Date: | , , , |
|--|--|------|------|-----|--|---|--|-----|--|--|-------------|--|---|---------------------------|
| NCR: Y | es | / No | | | | | WORK ORDER NON-C | .Or | NFORI | MANCE / UP | DAIE | QA Closed: | Date: | |
| Work Orde | r: | | | | | | DISPOSITION | | | | AGAINST D | EPARTMENT | /PROCESS | |
| Part No | | | | | | | Rework Scrap Use-as-is Work Order Update | | Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite | | | _ | Water Jet d. Eng. Coor. re/Packaging Supplier | Engineering Quality Other |
| Root | • | | | | Descr | - | tion of work order update | 1 | nitial | | ction | Sign & | | |
| Cause | 4 | Date | Step | Qty | | 0 | r Non-conformance | Ch | ief Eng | Desc | cription | Date | Verification | QC Inspector |
| quip/Tooling Operator Material etup Other rocess upplier raining | | | | | , | | | | | | | | | |
| | | | | | | | F | AUL | T CATE | GORY | | | | |
| Landir | Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence | | | | General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish | Grain Hardware Inspection Incomplet Instructions Incomplet Maintenance Mislabeled Misread Offset Out of Calibration Out of Sequence | | | /Unclear | Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/ | ct ssing | Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other | | |
| | Wave/Twist in Tube | | | | | Folio | | 1 | Dimensions | | | | | |

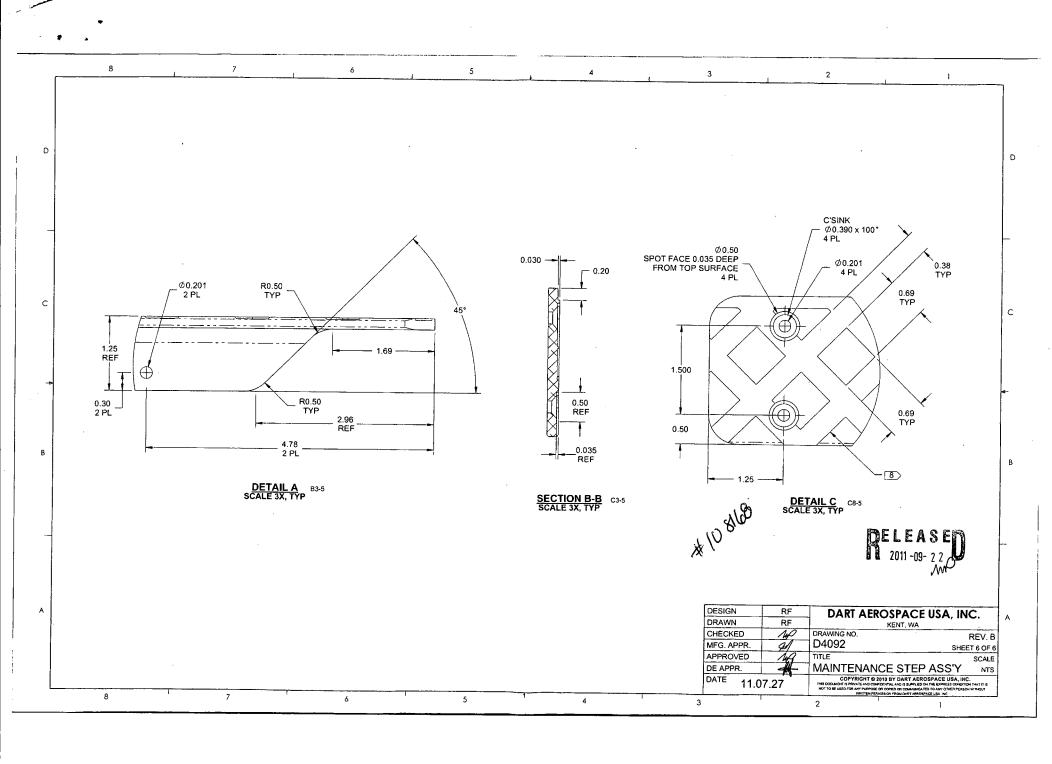
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| NCR: Y | es / No | | | | WORK ORDER NON- | CONFO | DRN | ANCE / UP | DATE | | | | |
|---------------|--------------------|------------|------------|-------|--------------------------------|-----------------|--|------------------|------------|--------------|---------------------|--------------------|--|
| | | | | | | | | | | QA Closed: | Date | e: | |
| Work Orde | r: | | | | DISPOSITION | _ . | | | AGAINST DE | PARTMENT | /PROCESS Water Jet | | |
| Part N | o | | | | Rework Scrap | | Skid-tube Crosstu Machining Small F | | | Pro | Engineering Quality | | |
| NCR N | 0 | | | | Use-as-is Work Order Update | } '' | Thermoforming Finishir Large Fab Composit | | | ~ | | | |
| Root | | Desc | | | ption of work order update | Initi | al | Ac | tion | Sign & | | | |
| Cause | Date | Step | Qty | | or Non-conformance | Chief | Eng | Desc | ription | Date | Verification | QC Inspector | |
| Doc/Data | | | | | | | | | | | | | |
| Equip/Tooling | | | 1 | | | 1 | | | | | | | |
| Operator | | | ! | | | | | | | | | | |
| Material | | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | |
| Process | | | | | | | | | | | | | |
| Supplier | | 1 | | | | | | | | | | | |
| Training | | Ì | | | | | | | | | ļ | | |
| Unapproved | | | | | | | | | | | | | |
| | | | | | F | AULT C | ATE | GORY | | | | | |
| Landin | g Gear | | | | General | | | | | _ | _ | | |
| | Bending | | | | Bend | Gra | ain | | | Ovalized | L | Pressure/Forced | |
| | Centre No | ot Conce | ntric to C | o/s | BOM/Route | Hai | rdwa | re | | Over/Under | tolerance | Temperature/Cure | |
| | Cracks | | | | Broken/Damaged | Ins | pecti | on Incomplete | | Part Incorre | ct [| Weld | |
| ſ | Crushed/ | Crimped | | | Burrs | Ins | truct | ions Incomplete/ | Unclear | Part Lost/Mi | issing | Wrong Stock Pulled | |
| | Cuffs | | | | Contamination | Ma | ainte | nance | | Part Moved | | | |
| ſ | Heat Trea | at | | | Countersink | Mis | slabe | led | Γ. | Positioned V | Vrong _ | | |
| Ī | Inspectio | n Strip in | Tube | | Cut Too Short | Mis | sreac | 1 | | Power Loss/ | 'Surge | Other | |
| Ī | Ripples in | - | | | Drill Holes | Off | set | | | _ | _ | 1123 | |
| | Torque W | Vaves in l | Extrusion | , | Drawing | Ou | t of (| Calibration | | | | | |
| Ť | Turning S | | | | Finish | Out of Sequence | | | | | | | |
| | Wave/Twist in Tube | | | Folio | Ou | tside | Dimensions | | | | - | | |

DQA:

Date:



| | • | | | | | , 7 | | | DQA: | Date: | | |
|---------------|----------|------|-----|---------------------|------------------------------------|-----------|--|------------|----------|---|---------------------------|---|
| NCR: Ye | es / No | | | WORK OF | RDER NON-CO | ONFORN | QA Closed: | Date: | | | | |
| Work Order | • | ÷ | | DISF | POSITION | | | AGAINST DE | /PROCESS | | | |
| Part No | | | | Work O | Rework Scrap Use-as-is rder Update | Therm | Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite | | | Water Jet d. Eng. Coor. re/Packaging Supplier | Engineering Quality Other | |
| Root | · | 1 | | Description of work | order update | Initial | Ac | tion | Sign & | | | |
| Cause | Date | Step | Qty | or Non-conform | mance | Chief Eng | Description | | Date | Verification | QC Inspecto | r |
| Doc/Data | | | | | | | | | | | | |
| Equip/Tooling | | | | | | 1 | | | | | | |
| Operator | | | | | | | | | | | | |
| Material | | | | | | | | | | | | |
| Setup | . | | | | | | | • • | | | | |

Training Unapproved **FAULT CATEGORY Landing Gear** General. Ovalized Pressure/Forced Bend Bending Grain BOM/Route Over/Under tolerance Temperature/Cure Centre Not Concentric to O/S Hardware Part Incorrect Weld Broken/Damaged Inspection Incomplete Cracks-Wrong Stock Pulled Part Lost/Missing Instructions Incomplete/Unclear Crushed/Crimped Burrs Maintenance Part Moved Cuffs Contamination Mislabeled Positioned Wrong Countersink Heat Treat Other Power Loss/Surge Inspection Strip in Tube Cut Too Short Misread Ripples in Bend Drill Holes Offset Out of Calibration Torque Waves in Extrusion Drawing Out of Sequence Finish Turning Sequence Outside Dimensions Folio Wave/Twist in Tube

Other Process Supplier